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3-STALL MILKING PLANT

... for 20 to 40 cows

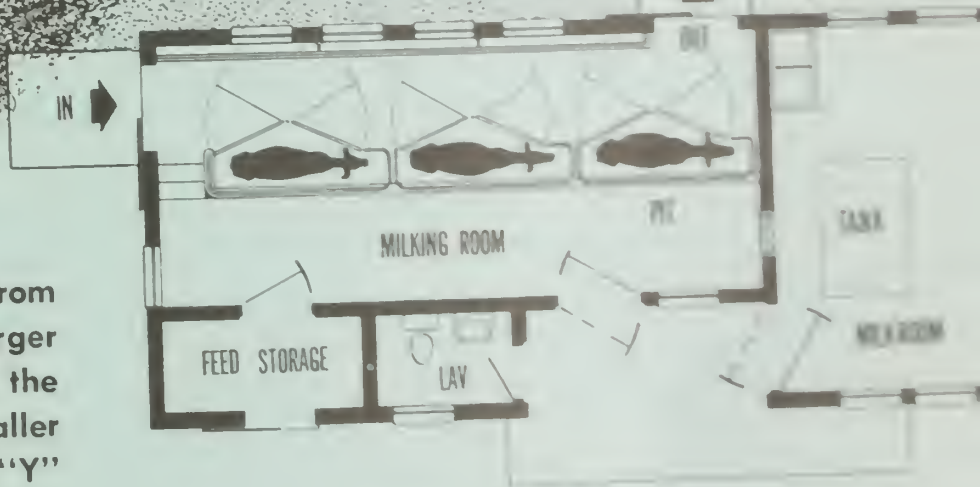
COOPERATIVE
FARM BUILDING
Plan No. 5875
(2-SHEETS)
PLAN EXCHANGE



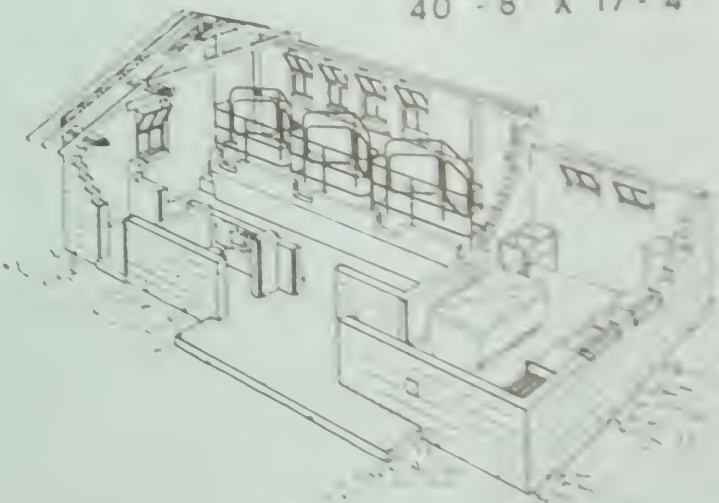
This type of milking plant is adapted to herds of from 20 to 40 cows and a one-man operation. For larger herds, either the double-tandem side-entering or the herringbone type would be preferable. For smaller herds, either the walk-through in-line or a 2-stall "Y" type might be considered.

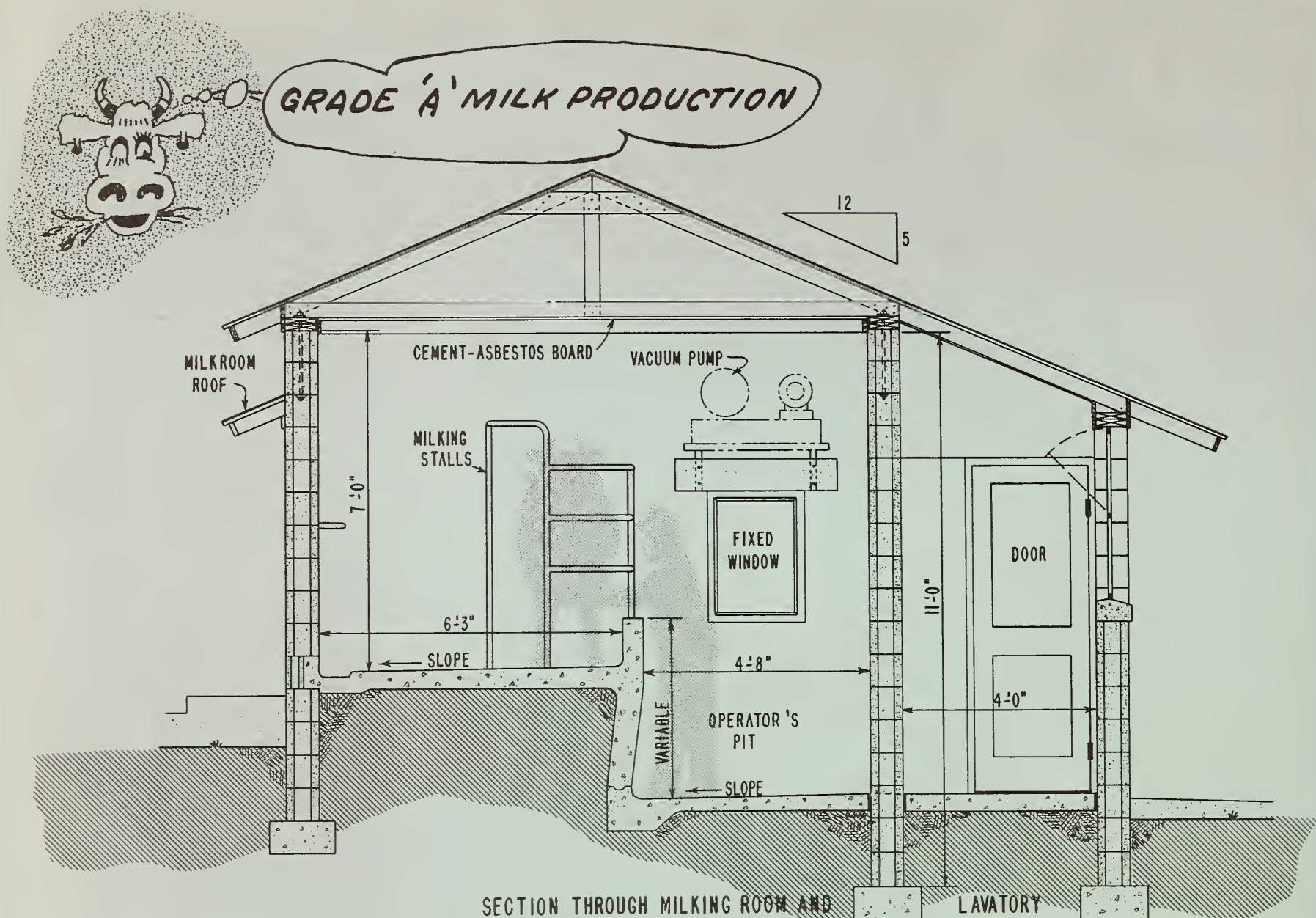
The 3-stall in-line, elevated, side-entering milking room—one of the earliest milking room designs—has been thoroughly proved in the field. It is well adapted not only to pipeline milking but also to bucket milking. If bucket milking is used, the solution vats may be left out until a pipeline is installed.

Before starting construction on any type of milking plant, be sure to check with your local health authorities to insure compliance with local health codes.



40'-8" X 17'-4"





ELEVATIONS: The grades shown above are convenient for a milking plant. The cows go up several steps to the cow platform level. Since the ground slopes away toward the right, the operator's pit, the milkroom, and the service area can be slightly above the elevation of the service yard. The milking plant arrangement permits installation of a low-level milk line. This arrangement gives better operation of the milking machine and may help to control mastitis.

WASTE DISPOSAL: Waste from the milkroom and wash-down from the operator's pit and from the washroom, may be piped to the same septic-tank system that serves the dwelling. If this is done, the septic tank and disposal field must be large enough to serve both the house and the milk plant. The waste from the cow platform level should be disposed of in a different manner. Possibilities are settling tanks, lagoons, and open-ditch disposal. Any of these must be approved by the health department.

INSULATION and HEATING: In a cold region, it may be desirable to put a central heating plant in the area set aside for the feed-storage room. In milder climates, the milking plant may be heated by electrical infrared-type units mounted over the operator's pit. The heat from the bulk tank compressor may be used to raise the temperature of the milkroom. In the southern region no heat will be required.

Ceiling insulation is recommended in all regions of the United States. The recommended insulating value ranges from a resistance of 16 in the Northern States to 2 in the Southern States. The recommended resistance of wall insulation ranges from 5 in the Northern States to 2 in the Southern States.

VENTILATION: Separate ventilating fans are recommended for the milkroom and milking room. The ventilation should be arranged so air from the milking room is never drawn into the milkroom through either air inlets or other openings. Maintaining a higher air pressure in the milkroom than in the milking room helps to eliminate odor in the milkroom. Ventilation should conform to the local health code.

Complete working drawings may be obtained through your county agent or from the Extension agricultural engineer at most State agricultural colleges. There is usually a small charge.

ORDER PLAN NO. 5875, 3-STALL MILKING PLANT

If the working drawings are not available in your State, write to the U.S. Department of Agriculture, Agricultural Engineering Research Division, Plant Industry Station, Beltsville, Md. The U.S. Department of Agriculture does not distribute drawings, but will direct you to a State that does distribute them.

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